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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/754,950	01/09/2004	Chiang Sun Cheah	MICR-306US	1451
68551	7590	05/27/2008		
RatnerPrestia P.O. BOX 980 VALLEY FORGE, PA 19482			EXAMINER BENNETT, JENNIFER D	
			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/754,950	Applicant(s) CHEAH ET AL.	
	Examiner JENNIFER BENNETT	Art Unit 2878	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-3 and 12-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Fujioka et al. (US 4933549).

Re claims 1 and 12: Fujioka teaches a system for timing an image acquisition (fig. 8-10), comprising: a source controller (LD drive, 28₁, 28₂, and 28₃) triggering an optical source (LD1, LD2, LD3) to illuminate a target (see fig. 8); and a delay block (54) coupled the source controller (LD drive, 28₁, 28₂, 28₃) (see fig. 9), imposing a delay interval starting at the triggering of the optical source (col. 8, lines 4-19), the delay block triggering an image acquisition at the end of the delay interval (col. 8, lines 19-25), wherein after the image acquisition the source controller turns the optical source off (col. 8, lines 26-27).

Re claims 2 and 13: Fujioka teaches the system wherein triggering the optical source to illuminate the target includes detecting a transition that turns the optical source off, imposing a delay period that starts at the detected transition (col. 8, lines 28-35), and actuating a trigger at the end of the delay period for triggering the optical source to illuminate the target (col. 8, lines 35-42).

Re claim 3, 14 and 15: Fujioka teaches the method wherein the delay interval defines an optical charge pulse that provides light to a sensor within an optical imaging system prior to the triggering the image acquisition (see fig. 10 and 4B, the Beam2 is illuminating the photodetector before the acquisition takes place with signal SPD2).

Re claim 16: Fujioka teaches the method wherein the triggering the optical source to illuminate the target is provided by a first transition (B2, first transition is on) and the turning the optical source off is provided by a second transition (B2 second transition off) (see fig. 4B).

Re claims 17 and 18: Fujioka teaches the method further comprising providing a first control signal triggering the optical source to illuminate the target (see fig. 4B the on and off signals are controlled by a first signal from circuit 30).

Re claims 19 and 20: Fujioka teaches the method further comprising providing a second control signal in response to the first control signal, the second control signal triggering the image acquisition at the end of the delay interval (see fig. 4B signals to actuated the photodetector from the delay circuit 54).

3. Claims 1 and 4-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Laughlin (US 4129780).

Re claim 1: Laughlin teaches a system for timing an image acquisition (fig. 1), comprising: a source controller (28) triggering an optical source to illuminate a target (col. 3, lines 36-40); and a delay block (36) coupled the source controller (see fig. 1), imposing a delay interval starting at the triggering of the optical source, the delay block

triggering an image acquisition at the end of the delay interval, wherein after the image acquisition the source controller turns the optical source off (col. 3, lines 56-60, col. 4, lines 8-13).

Re claim 4: Laughlin teaches the system (fig. 1) wherein the source controller (28) provides a first control signal to the optical source (see fig. 1, signal to the laser trigger) and to the delay block (36 and 38), and wherein the delay block generates a second control signal in response to the first control signal (see fig. 1, 38 and 40 generates a second signal to the image sensor 40).

Re claim 5: Laughlin teaches the system (fig. 1) wherein the first control signal includes a first transition triggering the optical source to illuminate the target and a second transition that turns the optical source off (laser trigger pulses signal the laser turns on and off).

Re claims 6 and 7: Laughlin teaches the system (fig. 1) wherein the second control signal includes a transition triggering the image acquisition at the end of the delay interval (col. 4, lines 17-28, fig. 3 delta T delay with acquisition after delay).

Re claim 8 and 9: Laughlin teaches the system (fig. 1) wherein triggering the image acquisition includes providing the second control signal to an image processor (40) (col. 4, lines 1-8, the receiver contains a processor to interpret signals from the delay circuit to receive data within a certain period or range) within an optical imaging system (fig. 1).

Re claims 10 and 11: Laughlin teaches the system (fig. 1) wherein the delay interval defines an optical charge pulse that provides light to a sensor within the optical imaging system prior to the triggering the image acquisition (col. 4, lines 44-62).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JENNIFER BENNETT whose telephone number is (571)270-3419. The examiner can normally be reached on Monday - Friday 0730 - 1700 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps can be reached on 571-272-2328. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/J. B./

/Georgia Y Epps/

Supervisory Patent Examiner, Art Unit 2878